

PTO/SB/08A&B (08-03)

Substitute for form 1449A&B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/615,416		
		Filing Date	July 7, 2003		
		First Named Inventor	Wishart, David Scott		
		Art Unit	1631		
		Examiner Name	Mahatan, Channing <b>WHALEY</b>		
Sheet	1	of	0	Attorney Docket Number	080586-000100US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature	/Pablo Whaley/ (03/08/2007)	Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

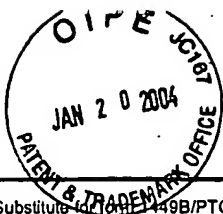
SubDate for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/615,418
		Filing Date	July 7, 2003
		First Named Inventor	Wishart, David Scott
		Art Unit	1831
		Examiner Name	MAHATAN, CHANNING W/ALC
Sheet	1	of	1
		Attorney Docket Number	080588-000100US

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		Number	Kind Code <sup>2</sup> (if known)			
/PW/	AA	US-5,707,676		01/1998	Temura et al.	
/PW/	AB	US-6,696,838		02-2004	Rafary et al.	
/PW/	AC	US-6,617,167		08-2003	Oltos et al.	
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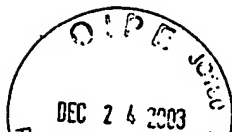
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				Application Number	10/615,416
				Filing Date	July 7, 2003
				First Named Inventor	David Scott Wishart
				Art Unit	1641 1631
				Examiner Name	Unassigned
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/PW/	1	ILES "Clinical biofluids," <u>Encyclopedia of Analytical Science</u> ; Nuclear Magnet Spectroscopy - Applications: 3532-3544 (1995).		
/PW/	2	LINDON et al. "Biofluids Studied by NMR," In Encyclopedia of Spectroscopy and Spectrometry. Academic Press, pp. 98-116 (2000).		
/PW/	3	NICHOLSON et al. "1H NMR spectroscopy of biological fluids and the investigation of perturbed metabolic processes," <u>Magnetic Resonance in Food Science</u> , Belton, PS et al. (eds), Royal Society of Chemistry (pubs); 40/7:12451250 (1994).		
/PW/	4	WEVERS et al. "High-resolution 1H-NMR spectroscopy of blood plasma for metabolic studies," Clinical Chemistry 40/7:1245-1250 (1994).		

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PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 5

Complete if Known

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First Named Inventor	David Scott Wishart
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Examiner Name	Unassigned
Attorney Docket Number	080586-000100US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/PW/	1	2003/0023386	01-30-2003	Aranibar et al.	
	2	2002/0145425	10-10-2002	Ebbels et al.	
	3	6,063,026	05-16-2000	Schauss et al.	
	4	6,035,246	03-07-2000	Wagner	
	5	5,926,773	07-20-1999	Wagner	
	6	5,887,588	03-30-1999	Usenius et al.	
	7	5,878,746	03-09-1999	Lemelson	
	8	5,822,219	10-13-1998	Chen et al.	
	9	5,726,570	03-10-1998	Spraul et al.	
	10	5,710,713	01-20-1998	Wright et al.	
	11	5,685,300	11-11-1997	Kuenstner	
	12	5,668,373	09-16-1997	Robbat Jr., et al.	
	13	5,629,210	05-13-1997	Hercules et al.	
	14	5,618,734	04-08-1997	Niwa et al.	
	15	5,617,861	04-08-1997	Ross et al.	
	16	5,559,038	09-24-1996	Kolhouse et al.	
	17	5,517,856	05-21-1996	Hofmann et al.	
	18	5,470,750	11-28-1995	Bar-or	
	19	5,446,881	08-29-1995	Gethner	
	20	5,397,987	03-14-1995	Garritano	
	21	5,397,989	03-14-1995	Spraul et al.	
	22	5,338,687	08-16-1994	Lee	
	23	5,318,031	08-07-1994	Mountford et al.	
	24	5,313,406	05-17-1994	Kauppinen et al.	
	25	5,308,982	05-03-1994	Ivaldi et al.	
	26	5,283,036	02-01-1994	Hofmann et al.	
	27	5,261,405	11-16-1993	Fossel	
	28	5,258,712	11-02-1993	Hofmann et al.	
	29	5,247,175	09-21-1993	Schoen et al.	
	30	5,231,031	07-27-1993	Szwergold et al.	
	31	5,229,716	07-20-1993	Demoment et al.	
	32	5,220,302	06-15-1993	Nunnally et al.	
	33	5,218,529	06-08-1993	Meyer et al.	
	34	5,213,101	05-25-1993	Fossel	
	35	5,207,715	05-04-1993	Fossel	
	36	5,198,766	03-30-1993	Spraul et al.	
	37	5,146,166	09-08-1992	Bartuska	
	38	5,124,267	06-23-1992	Humpel et al.	
	39	5,072,732	12-17-1991	Rapoport et al.	
	40	5,055,389	10-08-1991	Bar-Or et al.	
	41	5,046,846	09-10-1991	Ray et al.	

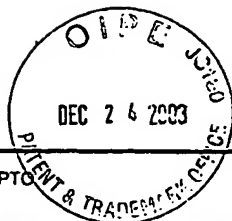
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Signature

/Pablo Whaley/ (03/08/2007)

Date  
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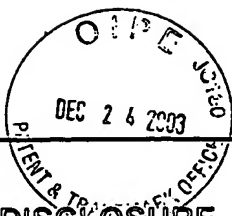
<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/615,416
		Filing Date	July 7, 2003
		First Named Inventor	David Scott Wishart
		Art Unit	1641 1631
		Examiner Name	Unassigned <i>Wishart</i>
Sheet 2	of 5	Attorney Docket Number	080586-000100US

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/PW/ ↓	42	5,041,789	08-20-1991	Keller et al.	
	43	5,015,954	05-14-1991	Dachene et al.	
	44	4,988,628	01-29-1991	Nanji	
	45	4,975,581	12-04-1990	Robinson et al.	
	46	4,940,055	07-10-1990	Brown	
	47	4,918,021	04-17-1990	Fossel	
	48	4,912,050	03-27-1990	Fossel	
	49	4,851,780	07-25-1989	Dejon et al.	
	50	4,728,889	03-01-1988	Gadian et al.	
	51	4,390,633	06-28-1983	Merlan et al.	
	52	4,081,742	03-28-1978	Hofer et al.	
	53	3,789,832	02-05-1974	Damadian	

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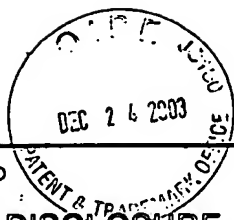
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/PW/	66	"NMR Lipoprotein Subclass Analysis: NMR LipoProfile Research Service", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, <a href="http://www.lipoprofile.com/lipomed/Products_Technology/R&amp;D/R&amp;D.htm">http://www.lipoprofile.com/lipomed/Products_Technology/R&amp;D/R&amp;D.htm</a> [printed March 14, 2001]	
	67	"Frequently Asked Questions", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, <a href="http://www.lipoprofile.com/lipomed/FAQS/faq.html">http://www.lipoprofile.com/lipomed/FAQS/faq.html</a> [printed March 14, 2001]	
	68	"Understanding the NMR LipoProfile", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610 (2001).	
	69	"Varian Nuclear Magnetic Resonance Systems - Bayesian Software", Varian, Inc., 3120 Hansen Way, Palo Alto, CA 94304-1030, USA, <a href="http://www.varianinc.com/nmr/products/software/bayesianonepr.html">http://www.varianinc.com/nmr/products/software/bayesianonepr.html</a> [printed March 19, 2001]	
	70	"About INCA", <a href="http://www.bruker.com/nmr/Products/INCA/index.html">http://www.bruker.com/nmr/Products/INCA/index.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.	
	71	"INCA Siting", <a href="http://www.bruker.com/nmr/Products/INCA/inca_siting.html">http://www.bruker.com/nmr/Products/INCA/inca_siting.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.	
	72	"INCA Configurations", <a href="http://www.bruker.com/nmr/Products/INCA/inca_config.html">http://www.bruker.com/nmr/Products/INCA/inca_config.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.	
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	74	"NMR Suite - AMIX", <a href="http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/au_home/amix/index.htm">http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/au_home/amix/index.htm</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.	
	75	"AMIX Tutorial", <a href="http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/amix_aurelia/amix_tourTOC.html">http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/amix_aurelia/amix_tourTOC.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.	
	76	"Who we are", <a href="http://www.acdlabs.com/company.html">http://www.acdlabs.com/company.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., 90 Adelaide Street West, Suite 702, Toronto, Ontario, M5H 3V9, Canada.	
	77	"ACD/Labs - Spectral Laboratory", <a href="http://www.acdlabs.com/products/spec_lab">http://www.acdlabs.com/products/spec_lab</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
	78	"ACD/Combi NMR", <a href="http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/tech.html">http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/tech.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
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	80	"Combi NMR Interface", <a href="http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/intr.html">http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/intr.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
✓	81	"NMR Spectroscopy", <a href="http://www.acdlabs.com/products/spec_lab/nmr.html">http://www.acdlabs.com/products/spec_lab/nmr.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	

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/PW/	82	"ACD/CNMR: Overview", <a href="http://www.acdlabs.com/products/spec_lab/predict_nmr/cnmr">http://www.acdlabs.com/products/spec_lab/predict_nmr/cnmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
	83	"ACD/HNMR: Overview", <a href="http://www.acdlabs.com/products/spec_lab/predict_nmr/hnmr">http://www.acdlabs.com/products/spec_lab/predict_nmr/hnmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
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	85	"CNMR Spectrum generator v4.5," <a href="http://ilab.acdlabs.com/webstore/dcnmrngen.htm">http://ilab.acdlabs.com/webstore/dcnmrngen.htm</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
	86	"ACD/2D NMR Predictor: Overview", <a href="http://www.acdlabs.com/products/spec_lab/predict_nmr/2d_nmr">http://www.acdlabs.com/products/spec_lab/predict_nmr/2d_nmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., 90 Adelaide Street West, Suite 702, Toronto, Ontario, M5H 3V9, Canada.	
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	88	BAMFORTH et al "Diagnosis of Inborn errors of metabolism using 1H NMR spectroscopic analysis of urine," J. Inher. Metab. Dis., SSIEM and Kluwer Academic Publishers, printed in the Netherlands, 22:297-301 (1999).	
	89	BRUST "NMR Chemical Shifts", Nuclear Magnetic Resonance, University of Southern Mississippi, <a href="http://www.psrc.usm.edu/macrog/nmrstf.htm">http://www.psrc.usm.edu/macrog/nmrstf.htm</a> [printed November 28, 2000].	
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	91	BUSZKO "A World Wide Web Interface to an NMR Spectrometer," available at < <a href="http://micro.ifas.ufl.edu">http://micro.ifas.ufl.edu</a> > (1997, 2003).	
	92	EMSLEY et al. "Magnetic Resonance, Historical Perspective," <i>Encyclopedia of Spectroscopy and Spectrometry</i> , Academic Press: pp. 1232-1240 (2000).	
	93	FREEDMAN et al. "Relation of Lipoprotein Subclasses as Measured by Proton Nuclear Magnetic Resonance Spectroscopy [...]" Reprint from <i>Arteriosclerosis, Thrombosis and Vascular Biology</i> 18:1046-1053 (1998).	
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	95	HOLMES et al "Proton NMR analysis of plasma from renal failure patients: evaluation of sample preparation and spectral-editing methods," <i>Journal of Pharmaceutical &amp; Biomedical Analysis</i> 8:955-958 (1990).	
	96	HOLMES et al. "Automatic Data Reduction and Pattern Recognition Methods for Analysis of 1H Nuclear Magnetic Resonance Spectra of Human Urine..." <i>Analytical Biochemistry</i> 220:284-298 (1994).	
↓	97	HORNAK "The Basics of NMR," available at < <a href="http://www.cis.rut.edu/htbooks/nmr">http://www.cis.rut.edu/htbooks/nmr</a> > (1997, 2002).	

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete If Known</b>	
		Application Number	10/615,416
		Filing Date	July 7, 2003
		First Named Inventor	David Scott Wishart
		Art Unit	1641 1631
		Examiner Name	Unassigned
Sheet	5	of	5
		Attorney Docket Number	080586-000100US

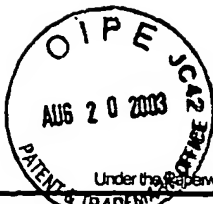
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/PW/	98	LINDON et al. "Biofluids Studied by NMR," In <u>Encyclopedia of Spectroscopy and Spectrometry</u> , Academic Press, pp. 98-118 (2002).	
	99	LINDON et al. "Multicentre Assessment of Small Molecule Quantitation in Human Blood Plasma Using 1H NMR Spectroscopy," <u>Journal of Magnetic Resonance Analysis</u> , England, pp. 66-74(1996).	
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	103	"Nuclear Magnetic Resonance with a 300 MHz Fourier Transform Spectrometer," <u>Modern Physics Laboratory Manual</u> , Middlebury College, Dept. of Physics, USA, < <a href="http://www.middlebury.edu/~PHManual/nuclearmag.html">http://www.middlebury.edu/~PHManual/nuclearmag.html</a> > (1992, 1993, 2001).	
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↓	110	WISHART et al. "Magnetic Resonance Diagnostics: A New Technology for High-Throughput Clinical Diagnostics," <u>Clin Chem</u> 47:1918-1921 (2001).	

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Application Number	10/615,416
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	Unassigned (63)
Examiner Name	Unassigned WHALEY
Attorney Docket Number	080586-000100US

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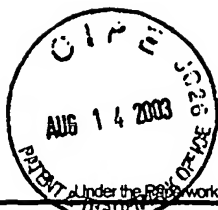
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/PW/	1	PAN "Correlation Of Lactate and Ph In Human Skeletal Muscle After Exercise By 1H NMR" Magnetic Resonance In Medicine 20:57-65 ( 1991).	

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		Art Unit	Unassigned 1631		
		Examiner Name	Unassigned WHALEY		
Page	1	of	2	Attorney Docket Number	080586-000100US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/PW/	1	US-5,343,389	08-30-1994	Otvos	
/PW/	2	US-4,833,844	06-12-1990	Otvos	

FOREIGN PATENT DOCUMENTS							
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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/615,416
		Filing Date	July 7, 2003
		First Named Inventor	David Scott Wishart
		Art Unit	Unassigned (63)
		Examiner Name	Unassigned Whaley
Page	2	of	2
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/PW/	3	EL-DEREDY "Pattern Recognition Approaches in Biomedical and Clinical Magnetic Resonance Spectroscopy: A Review," NMR In Biomedicine 10: 99-124 n(1997).	
/PW/	4	KURHANEWICZ "Citrates Alterations in Primary and Metastatic Human Prostatic Adenocarcinomas: <sup>1</sup> H Magnetic Resonance Spectroscopy and Biochemical Study," Magnetic Resonance In Medicine 29: 149-157 (1993).	
/PW/	5	LEVY et al. "Data Processing" Encyclopedia Of Nuclear Magnetic Resonance, D.M. Grant et al. (eds.), John Wiley & Sons, vol. 3, pages 1548-1558 (1996).	
/PW/	6	SPRAUL et al.: "Automatic Reduction of NMR Spectroscopic Data for Statistical and Pattern Recognition Classification of Samples," Journal Of Pharmaceutical And Biomedical Analysis 12: 1215-1225 (1994).	

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